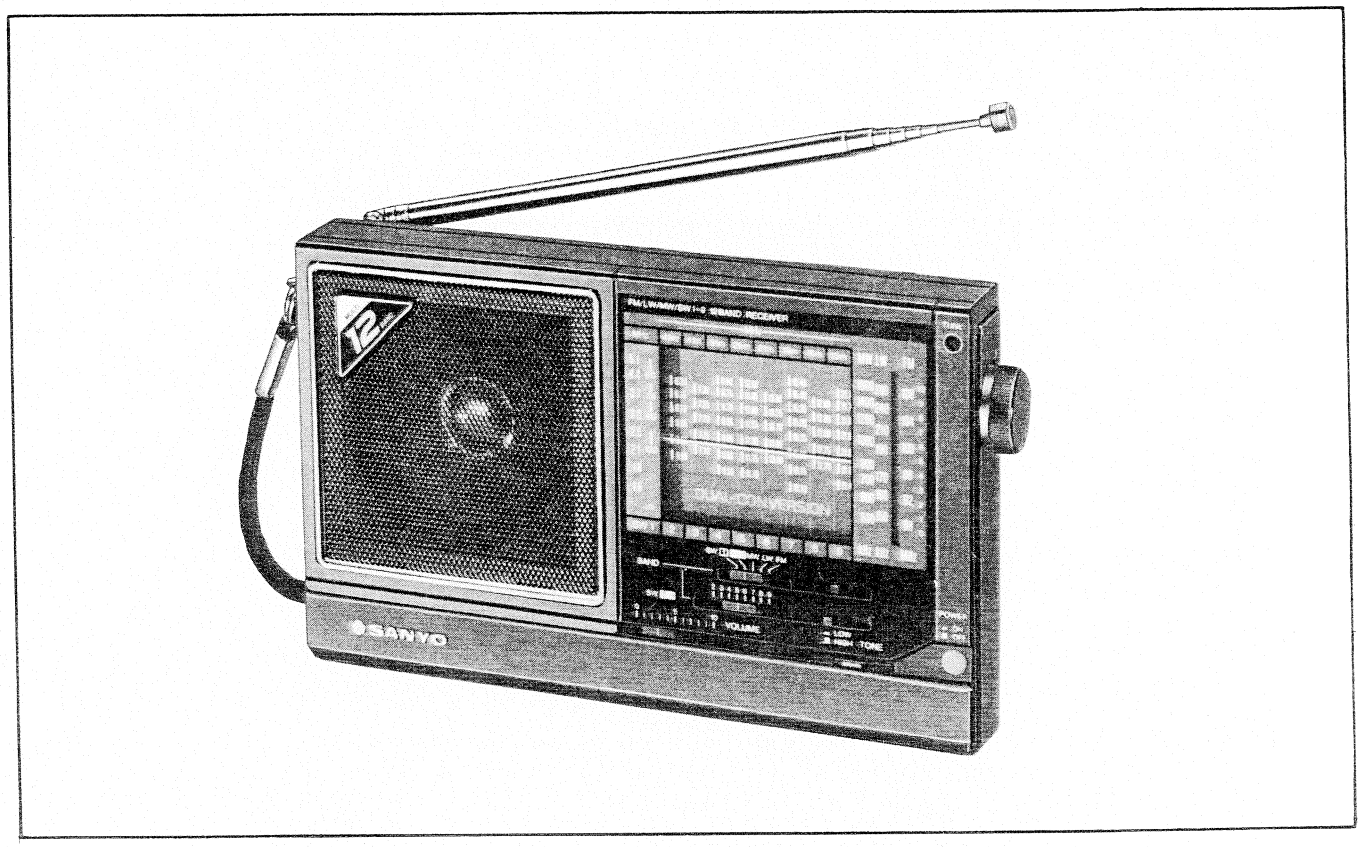
SERVICE MANUAL

PORTABLE RADIO

SANYO

RP 8920

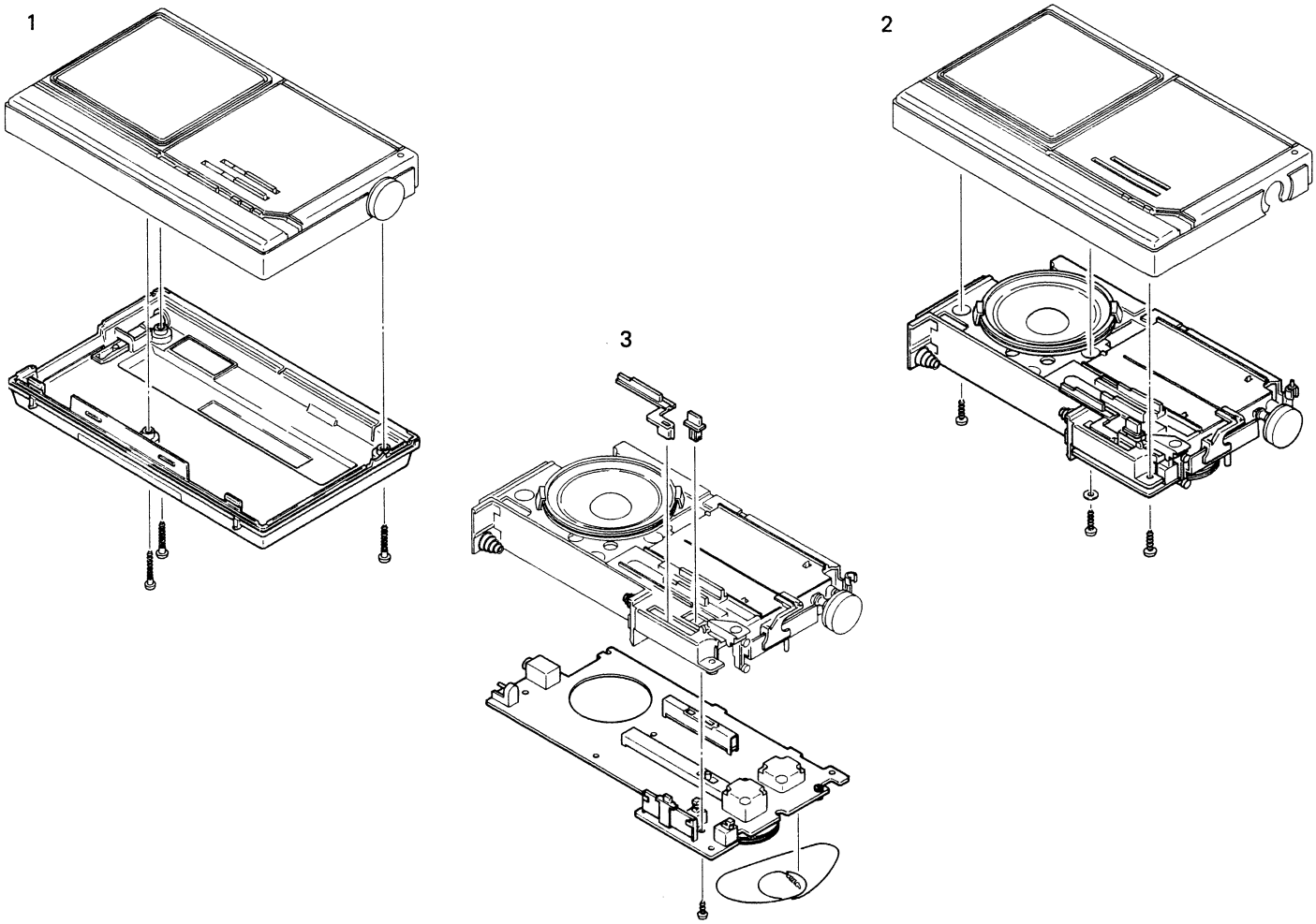
(EUROPE)



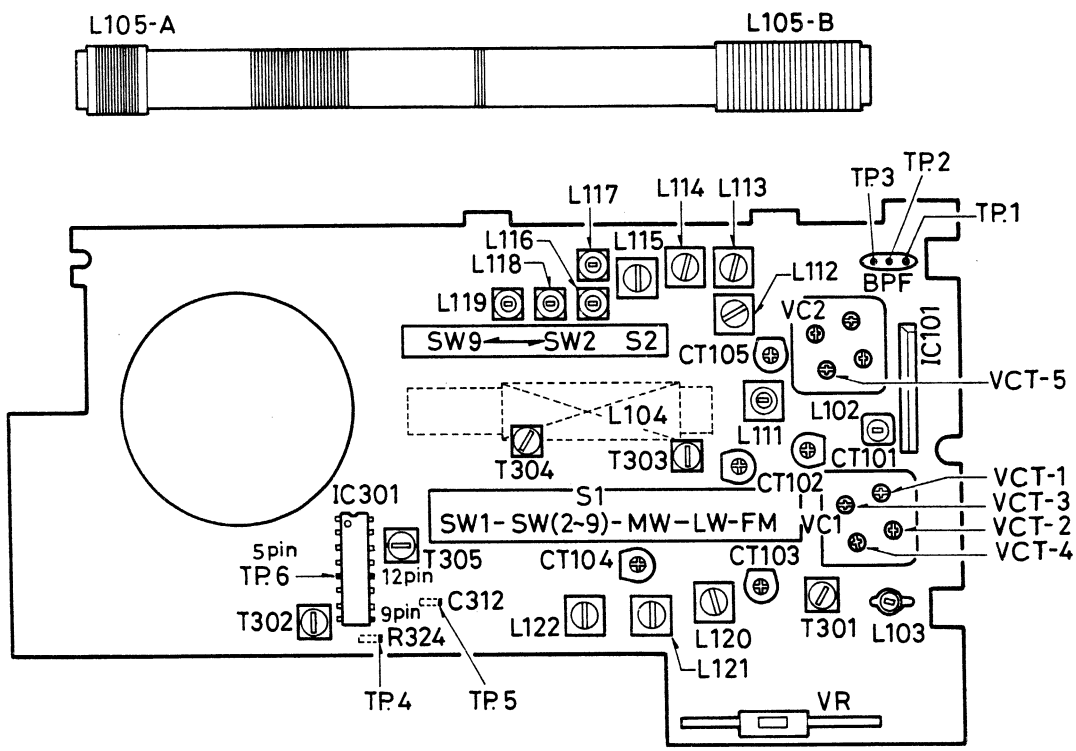
SPECIFICATIONS

Frequency range:	MW	525 – 1,605 kHz
	FM	87.5 – 108 MHz
	LW	150 – 285 kHz
	SW1	1.6 – 5.1 MHz
	SW2 ~ 9	49, 41, 31, 25, 22, 19, 16, 13m BAND
Inter mediate frequency:	AM	460 kHz
	FM	10.7 MHz
IC:	3	
Transistor:	17	
Diode:	11	
Speaker:	66mm, 8 ohm	
Power source:	DC 6V "AA" x 4	
Dimensions:	176 (W) x 107 (H) x 32 (D) mm	
Weight:	520 g (including batteries)	

DISASSEMBLY



PARTS LOCATION



ADJUSTMENT OF TUNER

MW ADJUSTMENT Set the DC6V. Speaker Impedance is 8 ohms. Standard output : 50mW (0.632V)

Step	Adjusting Circuit	Connections		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.T.	Connect sweep generator to Test Loop	Connect Sweep generator to TP5 (H) & TP6 (E)	460 KHz	Low end of dial scale. At position of unrequired signal	T304, T305	MAX.
2	OSC	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	505 KHz (400 Hz 30% modulation)	Low end of dial scale	L121	MAX.
3				1650 KHz (400 Hz 30% modulation)	High end of dial scale	VCT-4	
4	ANT	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	600 KHz (400 Hz 30% modulation)	600 KHz on dial scale	L105-A	MAX.
5				1400 KHz (400 Hz 30% modulation)	1400 KHz on dial scale	VCT-3	
6	Repeat adjustments 2, 3, 4 and 5.						

PREPARE: 1. Set the dial pointer to 0 point mark
2. Connect sweep generator, AM SG, VTVM and Oscilloscope.
3. Selector switch to "MW"
4. Use a screwdriver with plastic for all adjustments.

FM ADJUSTMENT

Step	Adjusting Circuit	Connection		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.	Connect sweep generator to TP-1 (H) & TP-2 (E)	Connect Sweep generator to TP4 (H) & TP6 (E)	10.7 MHz (0% modulation)	Near max. capacitance tuning gang under no station signal	T301	Match wave foam to ceramic filter center
2	Ratio Det.		Connect Sweep generator to TP4 (H) & TP6 (E)			T302	
3	OSC	Connect FM SG to TP-3 (H) & TP-2 (E)	Connect VTVM to speaker terminals	87.4 MHz (400 Hz 30% modulation)	Low end of dial scale	L103	MAX.
4				108.5 MHz (400 Hz 30% modulation)	High end of dial scale	VCT-2	
5	ANT	Connect FM SG to TP-3 (H) & TP-2 (E)	Connect VTVM to speaker terminals	90 MHz (400 Hz 30% modulation)	90 MHz on dial scale	L102	MAX.
6				106 MHz (400 Hz 30% modulation)	106 MHz on dial scale	VCT-1	
7	Repeat adjustments 3, 4, 5 and 6.						

PREPARE: 1. Set the dial pointer to 0 point mark
2. Connect sweep generator, FM SG, VTVM and Oscilloscope.
3. Use a screwdriver with plastic for all adjustments.
4. Use a FM antenna dummy impedance is 75 ohms.

LW ADJUSTMENT

Step	Adjusting Circuit	Connections		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	OSC	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	145 KHz (400 Hz 30% modulation)	Low end of dial scale	L120	MAX.
2				295 KHz (400 Hz 30% modulation)	High end of dial scale	CT103	
3	ANT	Connect AM SG to Test Loop	Connect VTVM to speaker terminals	160 KHz (400 Hz 30% modulation)	4.0 MHz on dial scale	L104	MAX.
4				280 KHz (400 Hz 30% modulation)	11.0 MHzon dial scale	CT101	
5	Repeat adjustments 1, 2, 3 and 4.						

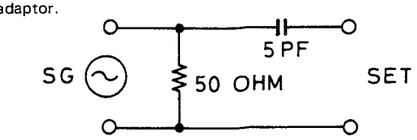
PREPARE: 1. Set the dial pointer to 0 point mark.
2. Connect sweep generator, AM SG, VTVM and Oscilloscope.
3. Selector switch to "LW".
4. Use a screwdriver with plastic for all adjustments.

TUNER ADJUSTMENTS

SW1 ADJUSTMENT

Step	Adjusting Circuit	Connections		SG Frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	OSC	Connect AM SG to ANT. terminal through adaptor	Connect VTVM to speaker terminal	1.5 MHz (400 Hz 30% modulation)	Low end of dial scale	L122	MAX.
2				5.2 MHz (400 Hz 30% modulation)	High end of dial scale	CT104	
3	ANT	Connect AM SG to ANT. terminal through dummy	Connect VTVM to speaker terminal	1.8 MHz (400 Hz 30% modulation)	1.8 MHz on dial scale	L105-B	MAX.
4				4.8 MHz (400 Hz 30% modulation)	4.8 MHz on dial scale	CT102	
5	Repeat dajustments 1, 2, 3 and 4.						

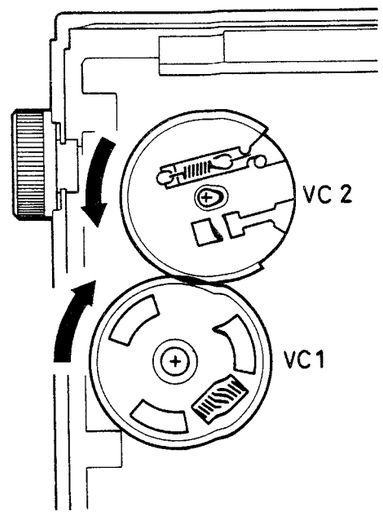
PREPARE: 1. Set the dial pointer to 0 point mark.
2. Connect sweep generator, AM SG, VTVM and Oscilloscope.
3. Selector switch to "SW1".
4. Use a screwdriver with plastic for all adjustments.
5. SG adaptor.



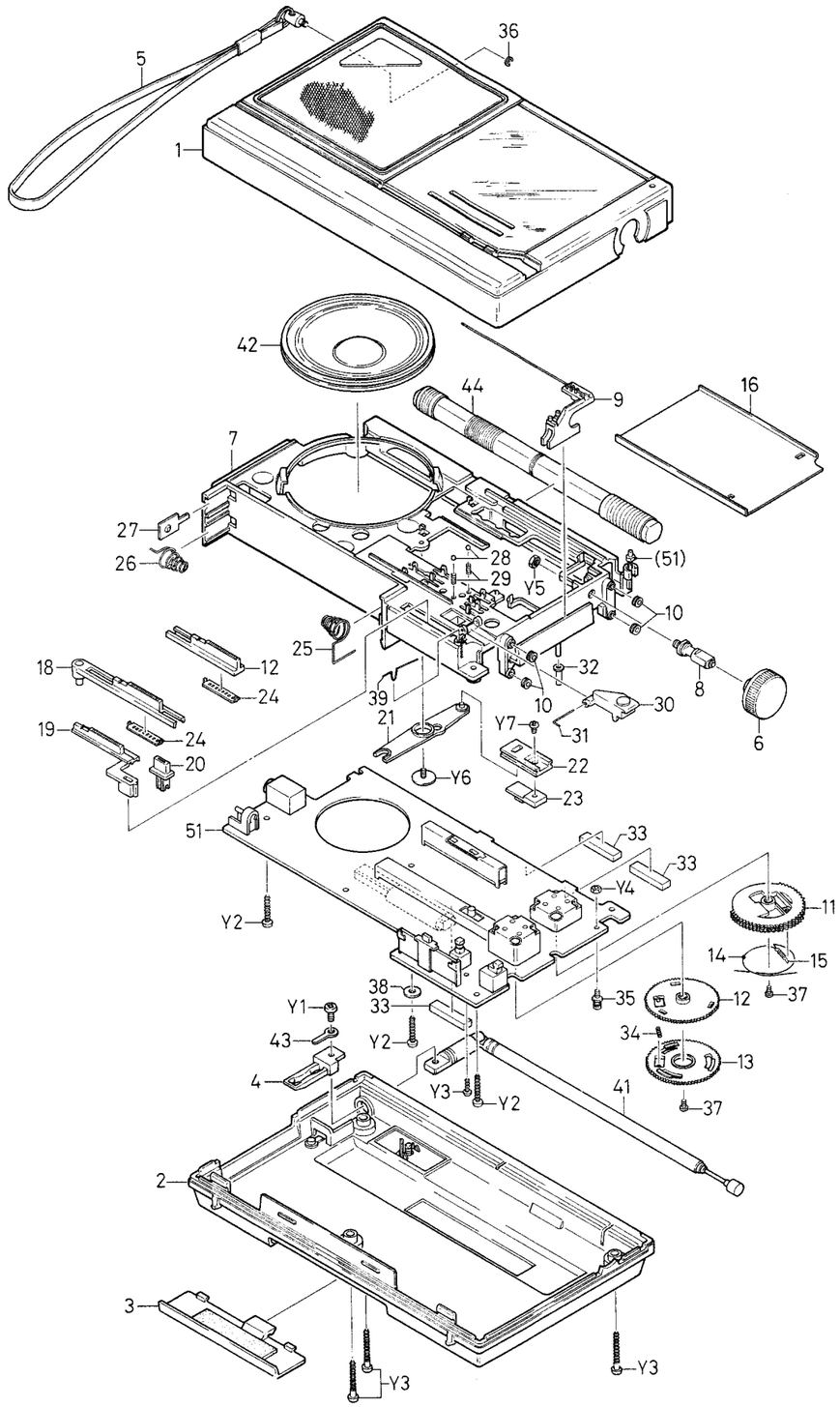
PROCEDURES OF FREQUENCY COVERING AND TRACKING ADJUSTMENTS OF BANDS SW2 ~ SW9
(Refer to the Adjusting Parts Arrangement Plan.)

1. Set band switch S1 in the "SW2" ~ "SW9" positions and band switch S2 in the "SW2" position.
2. Turn variable capacitor VC1 (VC2) to the "Hi" ("Low") side.
(If VC2 gear is turned clockwise, VC1 gear turns counterclockwise.) Then, adjust the L111 (2nd local oscillator coil) to set to 10.475 MHz.
3. Turn the VC1 (VC2) to the "LOW" ("Hi") side, and adjust the VCT-5 and CT-105 (2nd local trimmer) to set to 10.005 MHz.
4. Repeat the foregoing steps 2 & 3 several times to adjust the frequency covering of 10.005 and 10.475 MHz.
5. Next, turn the VC to tune to 6.075 MHz, and carry out tracking adjustment by means of the L112.
By the aforementioned procedure, frequency covering and tracking adjustment of band SW2 are comfleted.
6. Under the condition of the foregoing step 5, adjust the T303 (1st IFT) to set to the peak.
In the following, frequency covering adjustment is unnecessary for bands SW3 ~ SW9, but carry out only the tracking adjustment according to the following table.

Band	Adjusting Frequency	Adjusting Coil
SW2	6.075 MHz	L112
SW3	7.2	L113
SW4	9.65	L114
SW5	11.85	L115
SW6	13.70	L116
SW 7	15.275	L117
SW8	17.8	L118
SW9	21.6	L119



EXPLODED VIEW



PARTS LIST

NOTE:
* Materials of Capacitors and Resistors are abbreviated as follows;

AL ELECT	Aluminum Electrolytic
BC CON	Semiconductor Ceramic
CHIP BC	Chip Semiconductor Ceramic
CHIP TAN	Chip Tantal
ELECT	Electrolytic
PP CON	Polypropylene
MT GLAZE	Metal Glaze
FP CARBON	Flameproof Carbon

* Tolerance of Capacitors and Resistors are noted with follow symboles;

J	±5%	P	+100−0%
K	±10%	Q	+30−10%
M	±20%	Z	+80−20%
N	±30%		

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	141-6-141T-25001	DISPLAY CARTON
	141-6-145T-13200	FOAM PLASTIC CASE
	141-2-181T-16300	CASE
	141-6-231T-15305	INNER POLYE COVER
	141-6-317T-97200	PAD
	141-6-409T-25001	INST MANUAL
	4-152T-03101	EARPHONE
or	4-152T-06300	EAR PHONE

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	141-0-111T-66801	CABINET ASSY
2	141-0-126T-53901	BACK LID ASSY
3	141-0-128T-24400	BATTERY LID ASSY
4	141-2-384T-03800	BRACKET, ROD ANT
5	141-2-172T-02300	HANGER
6	141-0-165T-04300	ROTARY KNOB ASSY
7	141-0-311T-51400	CHASSIS ASSY
8	141-0-566T-16700	TUNING SHAFT ASSY
9	141-0-511T-30000	POINTER ASSY
10	141-0-661T-35200	PULLEY ASSY
11	141-2-538T-16400	DRUM, FM/AM
12	141-2-538T-16500	DRUM, SW
13	141-2-581T-41200	GEAR
14	141-2-340T-03003	ROPE 0.3X600MM
15	141-2-856T-59400	SPRING COIL, DIAL ROPE
16	141-2-146T-37400	DIAL SCALE
17	141-2-164T-40000	SLIDE KNOB, MAIN BAND SELECT
18	141-2-164T-40100	SLIDE KNOB, SW BAND SELECT
19	141-2-164T-40200	SLIDE KNOB, VOLUME
20	141-2-160T-57700	PUSH BUTTON, TONE
21	141-2-740T-27300	LEVER, SW BAND SELECT
22	141-2-732T-32400	SLIDE, SW BAND SELECT
23	141-0-253T-44200	JOINT ASSY, SW BAND SELECT
24	141-2-732T-32900	SLIDE
25	141-2-336T-34700	TERMINAL BATTERY (+,-)
26	141-2-336T-34800	TERMINAL BATTERY (-)
27	141-2-336T-20100	TERMINAL BATTERY (+)
28	141-2-345T-00400	STEEL BALL 2MM, SLIDE KNOB
29	141-2-856T-49000	SPRING COIL, SLIDE KNOB
30	141-0-160T-57800	PUSH BUTTON ASSY, POWER
31	141-2-754T-73600	SHAFT, POWER
32	141-2-430T-02700	EYELET, CHASSIS
33	141-2-447T-42200	CUSHION 5X20X3, ANTENNA LEAD
34	141-2-855T-20600	SPRING COIL, GEAR
35	141-2-569T-02700	GUIDE SHAFT
36	141-2-457T-23000	SPECIAL WASHER, E RING 2MM
37	141-2-421T-45600	SPECIAL SCREW, DRUM GEAR
38	141-2-453T-01400	WASHER, FIBER 3X6X0.5, PCB
39	141-2-860T-06900	SPRING WIRE, POWER BUTTON RETUTN
40	141-2-453T-03100	WASHER, FIBER 2X5X0.5, GUIDE SHAFT

FIXING PARTS

Ref. No.	Part No.	Description
Y1	BJNBS++3+6+Z1	PAN HD SCREW 3X6, ROD ANTENNA
Y2	BJN2S++314+Z1	PAN HD 2 TAPPING SCREW 3X14, CHASSIS-CABINET
Y3	BJN2S++320+ZK	PAN HD 2 TAPPING SCREW 3X20, BACK LID
Y4	NJR3B++2+++DA	HEX NUT 3 2MM, SHAFT
Y5	NJR3S++4+++Z1	HEX NUT 3 4MM, TUNING SHAFT
Y6	BJX3S2R6+6+Z1	PAN HD SCREW W/WASHER &
	BJX3S2R6+6+Z1	SPRING WASHER 2.6X6, LEVER
Y7	BJBYS2R6+3+Z1	BIND HD SCREW 2.6X3, JOINT ASSY
Y8	BJN2S++2+6+Z1	PAN HD 2 TAPPING SCREW 2X6, CHASS-PCB

ELECTRICAL PARTS

Ref. No.	Part No.	Description
41	4-244T-08300	ROD ANT
42	4-151T-55400	SPEAKER 6MM, 8 OHM, 0.5W
43	123-2-472R-00401	LUG, ROD ANTENNA
44	4-257T-65600	ANT COIL, MW/SW (L105)

MAIN P.C.BOARD ASSY

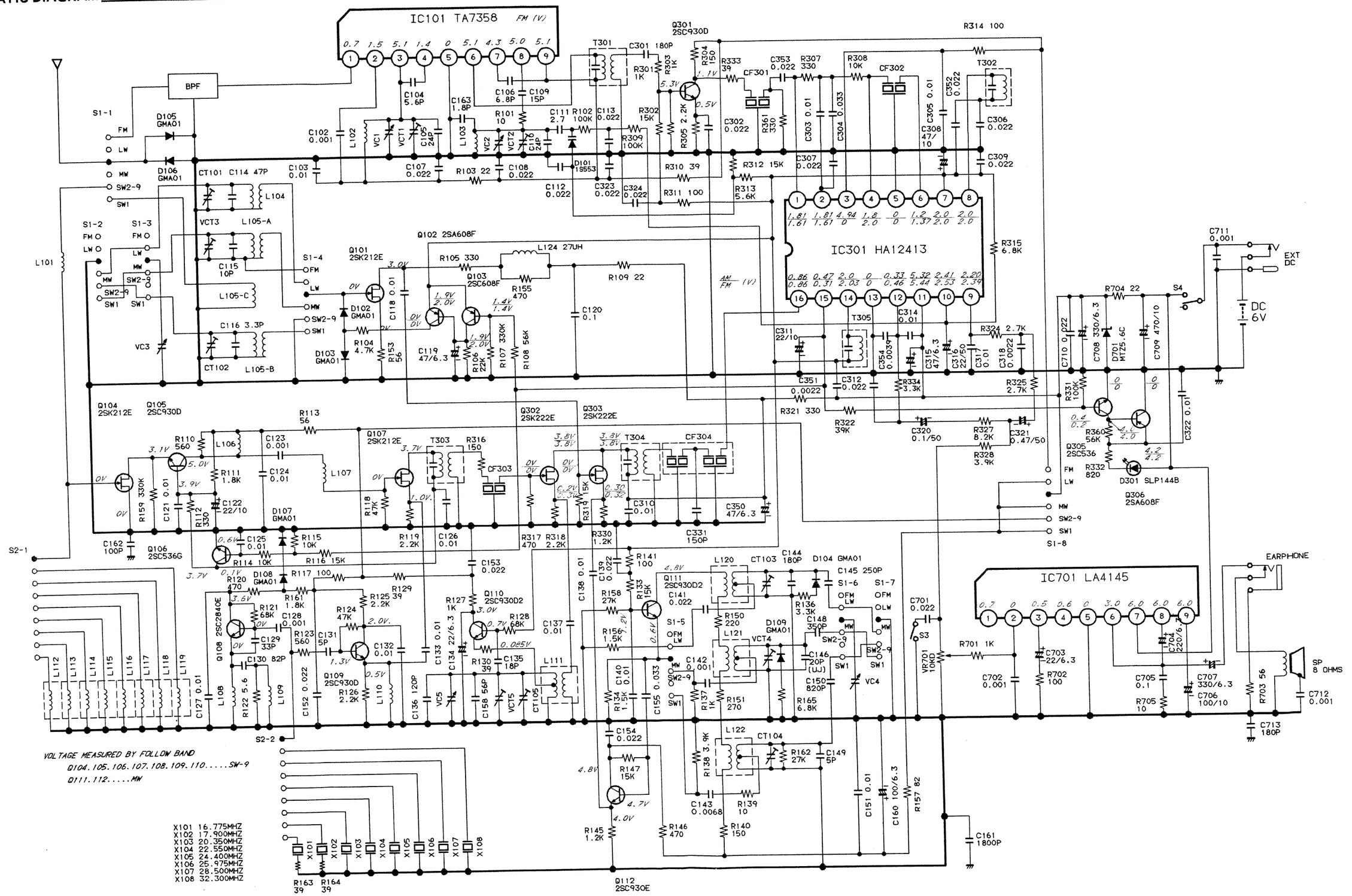
Ref. No.	Part No.	Description
51	141-4-280T-99971	P.C BOARD ASSY, MAIN
	4-240T-53600	SOCKET
or	4-240T-70200	SOCKET
	4-240T-63400	SOCKET, EXT.DC
VC1～4	4-224T-26700	V.C
VCT1～4		
VC5,VCT5	4-224T-26800	V.C
CT101	4-224T-15471	TRIMMER 30P, N750
CT102	4-224T-15571	TRIMMER 11P, N450
CT103	4-224T-18471	TRIMMER 60P, N1200
CT104	4-224T-15571	TRIMMER 11P, N450
CT105	4-224T-15471	TRIMMER 30P, N750
T301	4-256T-29310	I.F.T, FM
T302	4-256T-35310	I.F.T, FM
T303	4-256T-29310	I.F.T, FM
T304	4-256T-30710	I.F.T, AM
T305	4-256T-27610	I.F.T, AM
L101	4-253T-18105	FILTER
L102	4-265T-51610	V.H.F COIL, FM ANT
L103	4-265T-58141	V.H.F COIL, FM OSC
L104	4-257T-65901	ANT COIL ASSY, LW
L106	4-255R-10700	CHOKE COIL
L107	4-253T-18114	FILTER
L108	4-253T-18111	FILTER
L109	4-253T-18108	FILTER
L110	4-253T-18125	FILTER
L111	4-258T-53010	O.S.C COIL
L112	4-257T-68210	ANT COIL, SW2 6.075MHZ
L113	4-257T-68310	ANT COIL, SW3 7.2MHZ
L114	4-257T-68410	ANT COIL, SW4 9.65MHZ
L115	4-257T-68510	ANT COIL, SW5 11.85MHZ
L116	4-257T-68640	ANT COIL, SW6 13.7MHZ
L117	4-257T-68740	ANT COIL, SW7 15.27MHZ
L118	4-257T-68840	ANT COIL, SW8 17.8MHZ
L119	4-257T-68940	ANT COIL, SW9 21.6MHZ
L120	4-258T-53212	O.S.C COIL, LW
L121	4-258T-53110	O.S.C COIL, MW
L122	4-258T-53310	O.S.C COIL, SW1
L124	4-253T-18130	FILTER
CF301,302	4-256T-80400	I.F.FILTER 10.7MHZ RED
or	4-256T-80471	I.F.FILTER 10.67MHZ BLUE
or	4-256T-80472	I.F.FILTER 10.73MHZ ORANGE
CF303	4-256T-88300	I.F FILTER 10.7MHZ
CF304	4-256T-88471	I.F FILTER 460KHZ
BPF	4-253T-13471	FILTER
or	4-253T-16500	FILTER
X101	4-225T-07200	CRYSTAL 16.775MHZ
X102	4-225T-07300	CRYSTAL 17.900MHZ
X103	4-225T-07400	CRYSTAL 20.350MHZ
X104	4-225T-07500	CRYSTAL 22.550MHZ
X105	4-225T-07600	CRYSTAL 24.400MHZ
X106	4-225T-07700	CRYSTAL 25.975MHZ
X107	4-225T-07800	CRYSTAL 28.500MHZ
X108	4-225T-07900	CRYSTAL 32.300MHZ
S1-1～8	4-238T-95300	SWITCH, BAND (SW1-SW2～9-MW-LW-FM)
S2-1～2	4-238T-95000	SWITCH, BAND (SW2-9)
S3	4-238T-67200	SWITCH, TONE
S4	4-238T-48300	SWITCH, POWER
VR701	4-220T-25800	V.R 10KD, VOLUME
IC101	SITA7358P++++	IC TA7358P SIP9
IC301	SIHA12413++++	IC HA12413 DIP16
IC701	SILA4145+++++	IC LA4145 SIP9
Q101	SF2K212+++E++	FET 2SK212 E
Q102	STA608+F++++1	TR 2SA608 F SP
Q103	STA608+F++++1	TR 2SA608 F SP
Q104	SF2K212+++E++	FET 2SK212 E
Q105	STC930+D+++F1	TR 2SC930 D IF SP
Q106	STC536+G+++U+	TR 2SC536 G AUD
or	STC536+G+++U1	TR 2SC536 G AUD SP
Q107	SF2K212+++E++	FET 2SK212 E
Q108	STC2840E+++++	TR 2SC2840 E
Q109	STC930+D+++F1	TR 2SC930 D IF SP

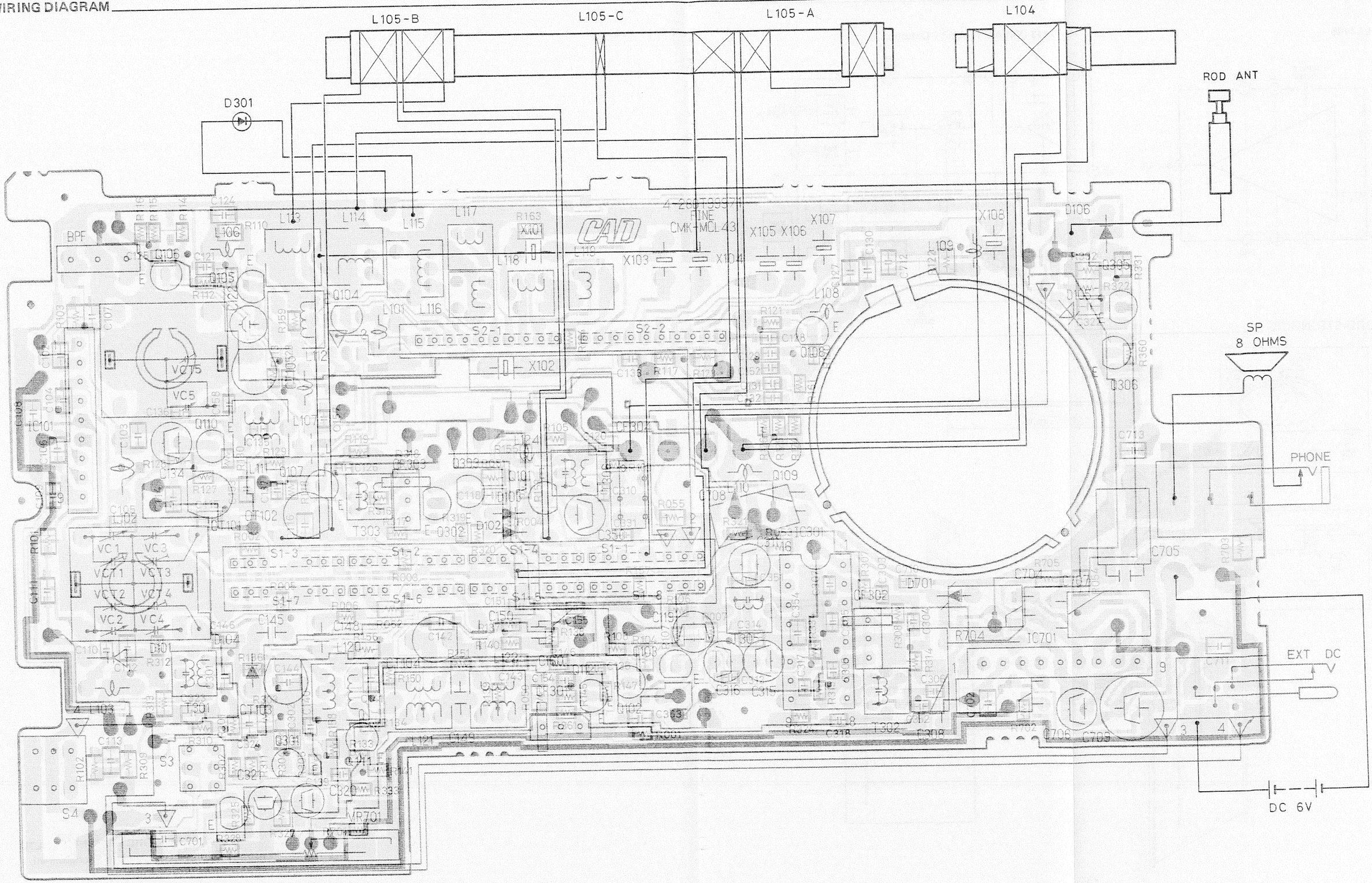
Ref. No.	Part No.	Description
Q110	STC930+D2++C1	TR 2SC930 D2 CONV SP
Q111	STC930+D2++C1	TR 2SC930 D2 CONV SP
Q112	STC930+E+++F1	TR 2SC930 E IF SP
Q301	STC930+D+++F1	TR 2SC930 D IF SP
Q302	SF2K222+++E++	FET 2SK222 E
Q303	SF2K222+++E++	FET 2SK222 E
Q305	STC536+E+++U1	TR 2SC536 E AUD SP
or	STC536+F+++U1	TR 2SC536 F AUD SP
or	STC536+G+++U1	TR 2SC536 G AUD SP
Q306	STA608+F++++1	TR 2SA608 F SP
D101	SC1S553++++++	VARACTOR DIODE 1S553
D102	SDGMA01++++++	DIODE GMA01
D103	SDGMA01++++++	DIODE GMA01
D104	SDGMA01++++++	DIODE GMA01
D105	SDGMA01++++++	DIODE GMA01
D106	SDGMA01++++++	DIODE GMA01
D107	SDGMA01++++++	DIODE GMA01
D108	SDGMA01++++++	DIODE GMA01
D109	SDGMA01++++++	DIODE GMA01
D301	SLSLP144B++RE	LED SLP144B RE
D701	SDMTZ056C++++	ZENER DIODE MTZ5.6C
C102	CC+50102KHYBR	CHIP CC 1000PF 50V K H YB
C103	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C104	CC+505R6KHSLR	CHIP CC 5.6PF 50V K H SL
C105	CC+50240JHSLR	CHIP CC 24PF 50V J H SL
C106	CC+506R8KHCHR	CHIP CC 6.8PF 50V K H CH
C107	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C108	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C109	CC+50150JHCHR	CHIP CC 15PF 50V J H CH
C110	CC+50240JZTHR	CHIP CC 24PF 50V J Z TH
C111	CC+502R7KHCHR	CHIP CC 2.7PF 50V K H CH
C112	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C113	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C114	CC+50470JHSLR	CHIP CC 47PF 50V J H SL
C115	CC+50100JHSLR	CHIP CC 10PF 50V J H SL
C116	CC+503R3KHSLR	CHIP CC 3.3PF 50V K H SL
C118	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C119	CE6R3476MVAKB	ELECT 47MF 6.3V M V AK B
C120	CC+25104ZZYFR	CHIP CC 0.1 25V Z Z YF
C121	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
or	CC+50103ZZYFR	CHIP CC 0.01 50V Z Z YF
C122	CE+10226MVHAB	ELECT 22MF 10V M V HA B
C123	CC+50102KHYBR	CHIP CC 1000PF 50V K H YB
C124	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C125	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C126	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
or	CC+50103ZZYFR	CHIP CC 0.01 50V Z Z YF
C127	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C128	CC+50102KHYBR	CHIP CC 1000PF 50V K H YB
C129	CC+50330JZSLR	CHIP CC 33PF 50V J Z SL
C130	CC+50820KHYBR	CHIP CC 82PF 50V K H YB
C131	CC+50050CZCHR	CHIP CC 5PF 50V C Z CH
C132	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
C133	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
C134	CE+10226MVHAB	ELECT 22MF 10V M V HA B
C135	CC+50180JZCHR	CHIP CC 18PF 50V J Z CH
C136	CC+50121JZCHR	CHIP CC 120PF 50V J Z CH
C137	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
C138	CC+50333ZZYFR	CHIP CC 0.033 50V Z Z YF
C139	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF
C140	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
C141	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C142	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C143	CB+16682MHXRR	CHIP BC 6800PF 16V M H XR
C144	CC+50181KHYBR	CHIP CC 180PF 50V K H YB
C145	CS+50251JT++S	STYROL 250PF 50V J T
C146	CC+50200JHUJR	CHIP CC 20PF 50V J H UJ
C148	CN100351JM++S	P P CON 350PF 100V J M
C149	CC+50050CDYLS	CERAMIC 5PF 50V C D YL
C150	CN100821JM++S	P P CON 820PF 100V J M
C151	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C152	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF
C153	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C154	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF

Ref. No.	Part No.	Description
C155	CC+50333ZZYFR	CHIP CC 0.033 50V Z Z YF
C158	CC+50560JZUJR	CHIP CC 56PF 50V J Z UJ
C160	CE6R3107MVAKS	ELECT 100MF 6.3V M V AK
C161	CB+50182MDXRS	BC CON 1800PF 50V M D XR
C163	CC+501R8MHSLR	CHIP CC 1.8PF 50V M H SL
C301	CC+50181KHYBR	CHIP CC 180PF 50V K H YB
C302	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF
C303	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
C304	CC+50333ZZYFR	CHIP CC 0.033 50V Z Z YF
C305	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
or	CC+50103ZZYFR	CHIP CC 0.01 50V Z Z YF
C306	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF
C307	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF
C308	CE+10476MVHAS	ELECT 47MF 10V M V HA S
C309	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF
C310	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
or	CC+50103ZZYFR	CHIP CC 0.01 50V Z Z YF
C311	CE+10226MVAKB	ELECT 22MF 10V M V AK B
C312	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C314	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C315	CE6R3476MVAKB	ELECT 47MF 6.3V M V AK B
C316	CE+50225MVAKB	ELECT 2.2MF 50V M V AK B
C317	CC+50103KZYBR	CHIP CC 0.01 50V K Z YB
C318	CC+50222KZYBR	CHIP CC 2200PF 50V K Z YB
C320	CE+50104MVHAB	ELECT 0.1MF 50V M V HA B
C321	CE+50474MVHAB	ELECT 0.47MF 50V M V HA B
C322	CB+16103MH+YR	CHIP BC 0.01 16V M H Y
C323	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C324	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C331	CC+50151JZCHR	CHIP CC 150PF 50V J Z CH
C350	CE6R3476MVS5S	ELECT 47MF 6.3V M V S5
C351	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C352	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF
C353	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C354	CB+16392MHXRR	CHIP BC 3900PF 16V M H XR
C701	CB++6223NH+YR	CHIP BC 0.022 6V N H Y
C702	CC+50102KHYBR	CHIP CC 1000PF 50V K H YB
C703	CE+10226MVHAS	ELECT 22MF 10V M V HA S
C704	CE6R3227MVHAS	ELECT 220MF 6.3V M V HA
C705	CM+50104MG++S	MYLAR 0.1MF 50V M G
C706	CE+10107MVHAB	ELECT 100MF 10V M V HA B
C707	CE6R3337MVHAS	ELECT 330MF 6.3V M V HA
C708	CE6R3337MVHAS	ELECT 330MF 6.3V M V HA
C709	CE+10477MVHAB	ELECT 470MF 10V M V HA B
C710	CC+50223ZZYFR	CHIP CC 0.022 50V Z Z YF
C711	CC+50102KHYBR	CHIP CC 1000PF 50V K H YB
C712	CC+50102KHYBR	CHIP CC 1000PF 50V K H YB
C713	CC+50181KHYBR	CHIP CC 180PF 50V K H YB
R1	RM/100000ZM+Z	MT-GLAZE Z 0 0 1/10W Z
R2	RM/100000ZM+Z	MT-GLAZE Z 0 0 1/10W Z
R3	RM/100000ZM+Z	MT-GLAZE Z 0 0 1/10W Z
R4	RM/100000ZM+Z	MT-GLAZE Z 0 0 1/10W Z
R5	RM/100000ZM+Z	MT-GLAZE Z 0 0 1/10W Z
R6	RM/100000ZM+Z	MT-GLAZE Z 0 0 1/10W Z
R7	RM/100000ZM+Z	MT-GLAZE Z 0 0 1/10W Z
R8	RM/100000ZM+Z	MT-GLAZE Z 0 0 1/10W Z
R50	RC/+80000M++Z	CARBON Z 0 0 1/8W Z
R51	RC/+80000M++Z	CARBON Z 0 0 1/8W Z
R52	RC/+80000M++Z	CARBON Z 0 0 1/8W Z
R53	RC/+80000M++Z	CARBON Z 0 0 1/8W Z
R54	RC/+80000M++Z	CARBON Z 0 0 1/8W Z
R55	RC/+80000M++Z	CARBON Z 0 0 1/8W Z
R101	RC/+8100JM++Z	CARBON Z 100HM J 1/8W Z
R102	RC/+8104JM++Z	CARBON Z 100KOHM J 1/8W Z
R103	RC/+8220JM++Z	CARBON Z 220HM J 1/8W Z
R104	RC/+8472JM++Z	CARBON Z 4.7KOHM J 1/8W Z
R105	RM/10331JZM+Z	MT-GLAZE Z 330 J 1/10W Z
R106	RM/10223JZM+Z	MT-GLAZE Z 22K J 1/10W Z
R107	RM/10334JZM+Z	MT-GLAZE Z 330K J 1/10W Z
R108	RM/10563JZM+Z	MT-GLAZE Z 56K J 1/10W Z
R109	RC/+8220JM++Z	CARBON Z 220HM J 1/8W Z
R110	RC/+8561JM++Z	CARBON Z 560OHM J 1/8W Z
R111	RM/10182JZM+Z	MT-GLAZE Z 1.8K J 1/10W Z
R112	RM/10331JZM+Z	MT-GLAZE Z 330 J 1/10W Z
R113	RM/10560JZM+Z	MT-GLAZE Z 56 J 1/10W Z
R114	RM/10103JZM+Z	MT-GLAZE Z 10K J 1/10W Z

Ref. No.	Part No.	Description
R115	RM/10103JZM+Z	MT-GLAZE Z 10K J 1/10W Z
R116	RM/10153JZM+Z	MT-GLAZE Z 15K J 1/10W Z
R117	RM/10101JZM+Z	MT-GLAZE Z 100 J 1/10W Z
R118	RM/10473JZM+Z	MT-GLAZE Z 47K J 1/10W Z
R119	RM/10222JZM+Z	MT-GLAZE Z 2.2K J 1/10W Z
R120	RM/10471JZM+Z	MT-GLAZE Z 470 J 1/10W Z
R121	RC/+8683JM++Z	CARBON Z 68KOHM J 1/8W Z
R122	RC/+85R6JM++Z	CARBON Z 5.6OHM J 1/8W Z
R123	RC/+8561JM++Z	CARBON Z 560OHM J 1/8W Z
R124	RM/10473JZM+Z	MT-GLAZE Z 47K J 1/10W Z
R125	RM/10222JZM+Z	MT-GLAZE Z 2.2K J 1/10W Z
R126	RM/10222JZM+Z	MT-GLAZE Z 2.2K J 1/10W Z
R127	RM/10102JZM+Z	MT-GLAZE Z 1.0K J 1/10W Z
R128	RC/+8683JM++Z	CARBON Z 68KOHM J 1/8W Z
R129	RM/10390JZM+Z	MT-GLAZE Z 39 J 1/10W Z
R130	RM/10390JZM+Z	MT-GLAZE Z 39 J 1/10W Z
R133	RM/10153JZM+Z	MT-GLAZE Z 15K J 1/10W Z
R134	RC/+8152JM++Z	CARBON Z 1.5KOHM J 1/8W Z
R136	RM/10332JZM+Z	MT-GLAZE Z 3.3K J 1/10W Z
R137	RM/10102JZM+Z	MT-GLAZE Z 1.0K J 1/10W Z
R138	RM/10392JZM+Z	MT-GLAZE Z 3.9K J 1/10W Z
R139	RM/10100JZM+Z	MT-GLAZE Z 10 J 1/10W Z
R140	RM/10151JZM+Z	MT-GLAZE Z 150 J 1/10W Z
R141	RM/10101JZM+Z	MT-GLAZE Z 100 J 1/10W Z
R145	RM/10122JZM+Z	MT-GLAZE Z 1.2K J 1/10W Z
R146	RM/10471JZM+Z	MT-GLAZE Z 470 J 1/10W Z
R147	RM/10153JZM+Z	MT-GLAZE Z 15K J 1/10W Z
R150	RM/10221JZM+Z	MT-GLAZE Z 220 J 1/10W Z
R151	RM/10271JZM+Z	MT-GLAZE Z 270 J 1/10W Z
R153	RM/10560JZM+Z	MT-GLAZE Z 56 J 1/10W Z
R155	RM/10471JZM+Z	MT-GLAZE Z 470 J 1/10W Z
R156	RC/+8152JM++Z	CARBON Z 1.5KOHM J 1/8W Z
R157	RM/10820JZM+Z	MT-GLAZE Z 82 J 1/10W Z
R158	RM/10273JZM+Z	MT-GLAZE Z 27K J 1/10W Z
R159	RM/10334JZM+Z	MT-GLAZE Z 330K J 1/10W Z
R161	RM/10182JZM+Z	MT-GLAZE Z 1.8K J 1/10W Z
R162	RC/+6273JP+++	CARBON P 27K OHM J 1/6W
R163	RM/10390JZM+Z	MT-GLAZE Z 39 J 1/10W Z
R164	RM/10390JZM+Z	MT-GLAZE Z 39 J 1/10W Z
R165	RC/+6682JP+++	CARBON P 6.8K OHM J 1/6W
R301	RM/10102JZM+Z	MT-GLAZE Z 1.0K J 1/10W Z
R302	RM/10153JZM+Z	MT-GLAZE Z 15K J 1/10W Z
R303	RC/+8223JM++Z	CARBON Z 22KOHM J 1/8W Z
R304	RM/10151JZM+Z	MT-GLAZE Z 150 J 1/10W Z
R305	RM/10222JZM+Z	MT-GLAZE Z 2.2K J 1/10W Z
R307	RM/10331JZM+Z	MT-GLAZE Z 330 J 1/10W Z
R308	RM/10103JZM+Z	MT-GLAZE Z 10K J 1/10W Z
R309	RC/+8104JM++Z	CARBON Z 100KOHM J 1/8W Z
R310	RM/10390JZM+Z	MT-GLAZE Z 39 J 1/10W Z
R311	RM/10101JZM+Z	MT-GLAZE Z 100 J 1/10W Z
R312	RM/10153JZM+Z	MT-GLAZE Z 15K J 1/10W Z
R313	RC/+8562JM++Z	CARBON Z 5.6KOHM J 1/8W Z
R314	RM/10101JZM+Z	MT-GLAZE Z 100 J 1/10W Z
R315	RM/10682JZM+Z	MT-GLAZE Z 6.8K J 1/10W Z
R316	RM/10151JZM+Z	MT-GLAZE Z 150 J 1/10W Z
R317	RM/10471JZM+Z	MT-GLAZE Z 470 J 1/10W Z
R318	RM/10222JZM+Z	MT-GLAZE Z 2.2K J 1/10W Z
R319	RM/10153JZM+Z	MT-GLAZE Z 15K J 1/10W Z
R320	RM/10122JZM+Z	MT-GLAZE Z 1.2K J 1/10W Z
R321	RM/10331JZM+Z	MT-GLAZE Z 330 J 1/10W Z
R322	RC/+8393JM++Z	CARBON Z 39KOHM J 1/8W Z
R324	RM/10272JZM+Z	MT-GLAZE Z 2.7K J 1/10W Z
R325	RM/10272JZM+Z	MT-GLAZE Z 2.7K J 1/10W Z
R327	RC/+8822JM++Z	CARBON Z 8.2KOHM J 1/8W Z
R328	RM/10392JZM+Z	MT-GLAZE Z 3.9K J 1/10W Z
R331	RC/+8104JM++Z	CARBON Z 100KOHM J 1/8W Z
R332	RC/+8821JM++Z	CARBON Z 8200HM J 1/8W Z
R333	RM/10390JZM+Z	MT-GLAZE Z 39 J 1/10W Z
R334	RM/10332JZM+Z	MT-GLAZE Z 3.3K J 1/10W Z
R360	RM/10563JZM+Z	MT-GLAZE Z 56K J 1/10W Z
R361	RM/10331JZM+Z	MT-GLAZE Z 330 J 1/10W Z
R701	RM/10102JZM+Z	MT-GLAZE Z 1.0K J 1/10W Z
R702	RM/10101JZM+Z	MT-GLAZE Z 100 J 1/10W Z
R703	RC/+8560JM++Z	CARBON Z 560HM J 1/8W Z
R704	RC/+4220JP++R	CARBON P 22 OHM J1/4WR25
R705	RC/+8100JM++Z	CARBON Z 100HM J 1/8W Z

SCHEMATIC DIAGRAM

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L108
L109
L110
L111
L112
L116
S2-1
S2-2
VC5
VC75
VC1
VC2
VC3
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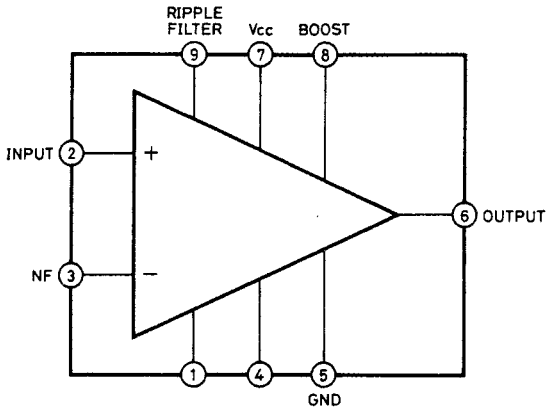
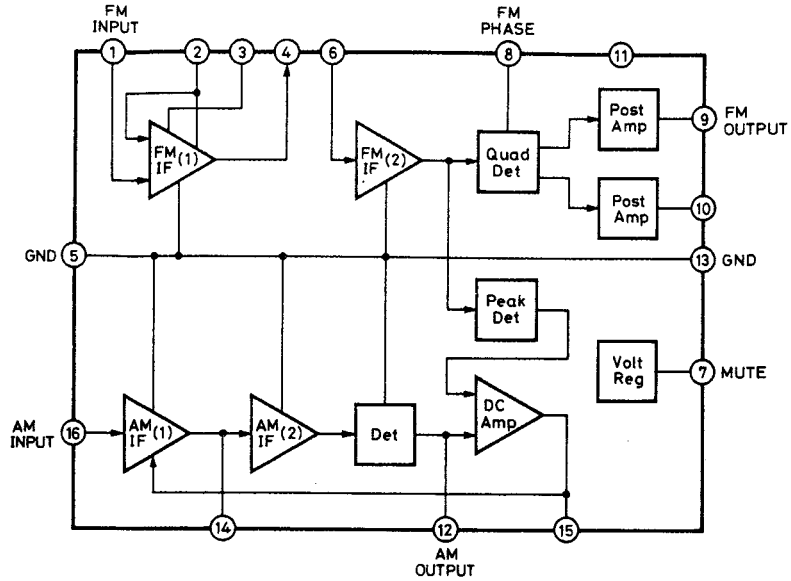
PHONE
EXT DC
DC 6V

IC BLOCK DIAGRAM

LA4145



HA12413 (FM/AM IF AMP + Detector)



DIAL CORD STRINGING